

APPROVED	O. G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

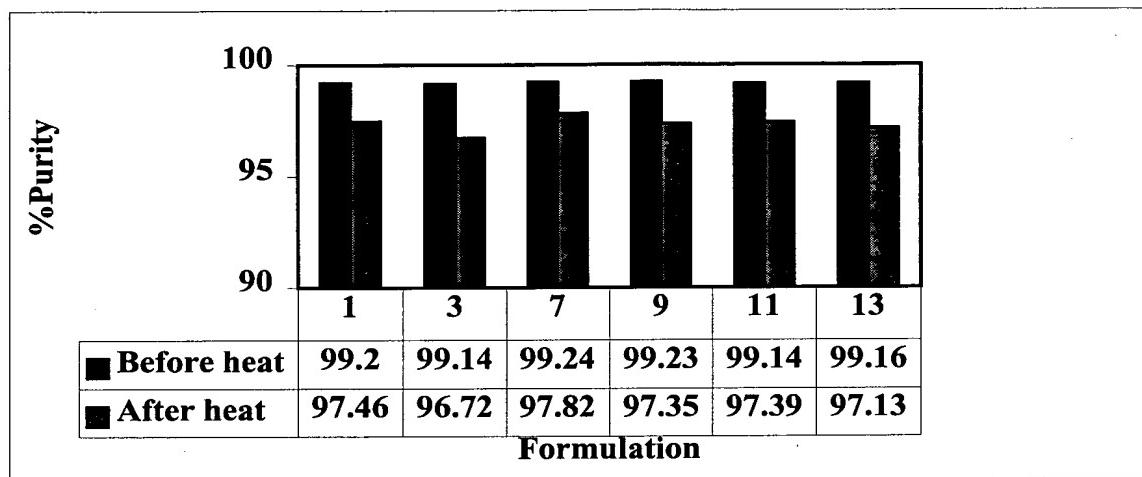
Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Appl. No.: Not yet assigned

Atty. Docket No. 016777/0454

Figure 1. Amino acids screening in buffers using heat stress.



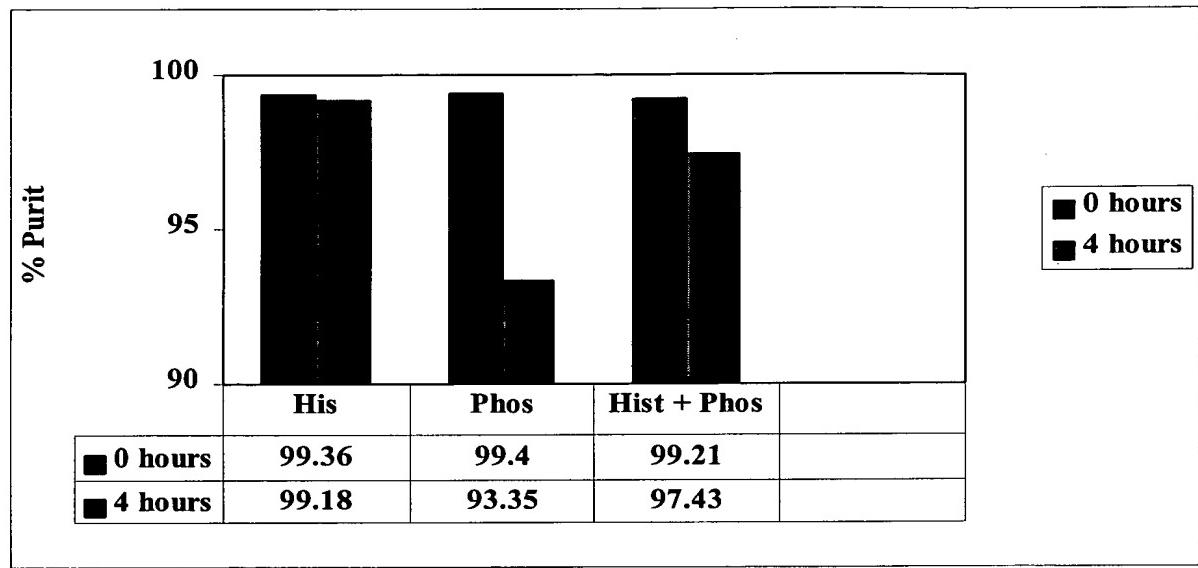
Formulation

1. 10 mM Phosphate, 10 mM Glu
3. 10 mM Phosphate, 10 mM Citrate
7. 10 mM Phosphate, 10 mM Ser
9. 10 mM Phosphate, 10 mM Pro
11. 10 mM Phosphate, 10 mM His
13. 10 mM Phosphate, 10 mM Gly

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

Title: GLP-2 FORMULATIONS
Inventor(s): Indu J. Isaacs
Appl. No.: Not yet assigned
Atty. Docket No. 016777/0454

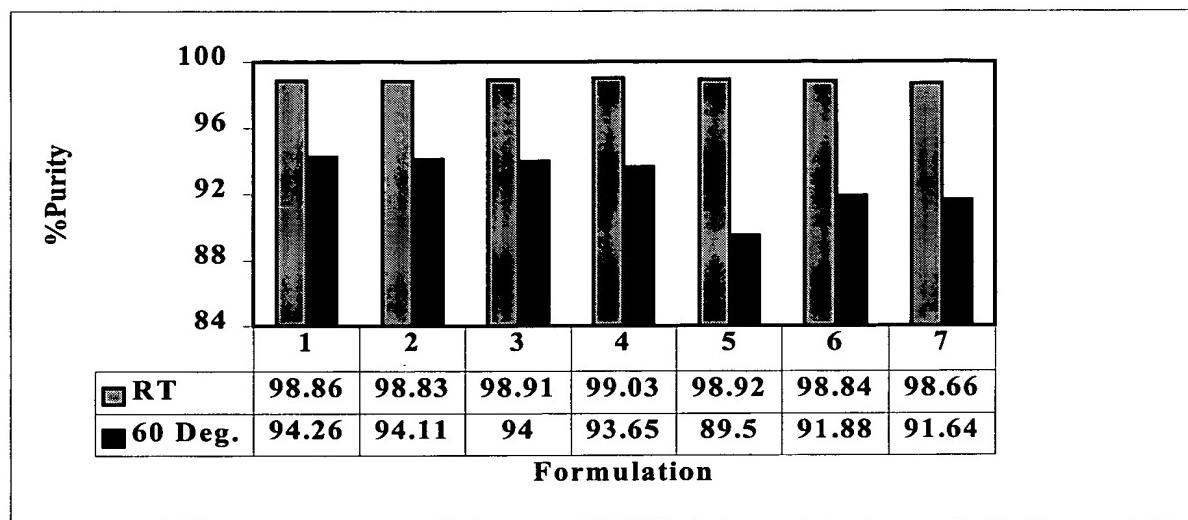
Figure 2. Screening of buffers using heat stress.



APPROVED	O. G. FIG.
BY	
DRAFTSMAN	

Title: GLP-2 FORMULATIONS
 Inventor(s): Indu J. Isaacs
 Appl. No.: Not yet assigned
 Atty. Docket No. 016777/0454

Figure 3. Screening of Bulking agents analyzed by RP-HPLC.



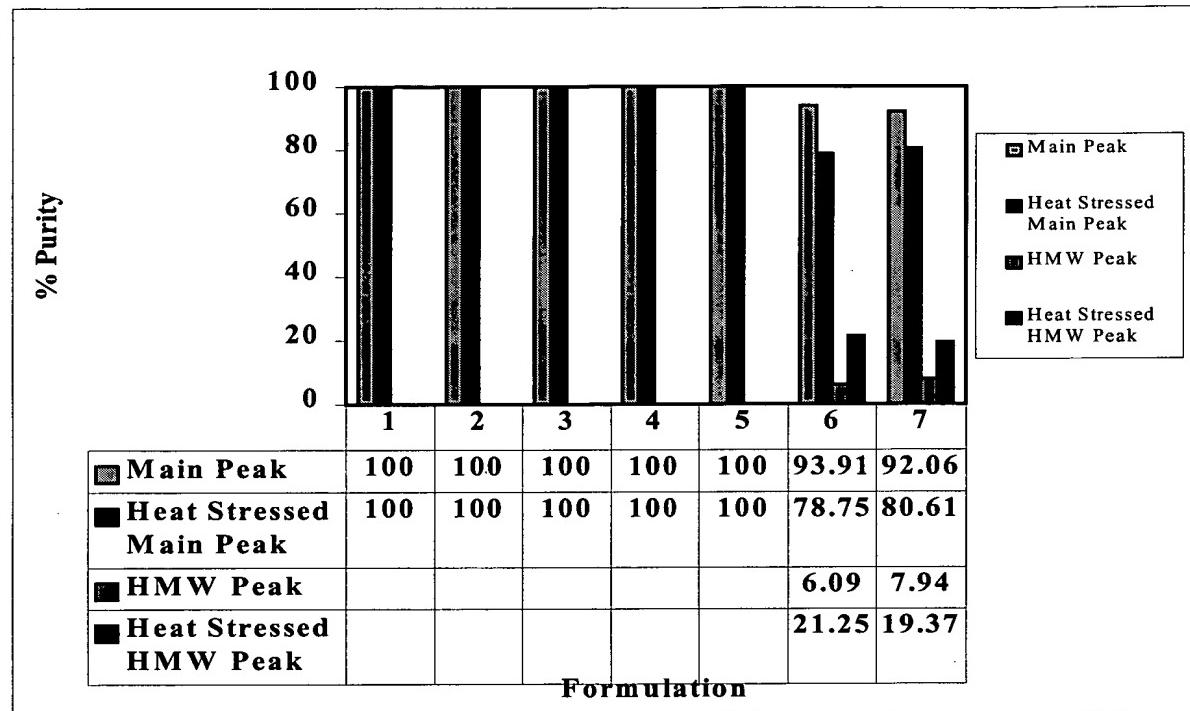
Formulation

1. 25 mM Histidine, 35 mM phosphate, 3% Mannitol
2. 50 mM Histidine, 35 mM phosphate, 3% Mannitol
3. 75 mM Histidine, 35 mM phosphate, 3% Mannitol
4. 25 mM Histidine, 25 mM phosphate, 3% sucrose
5. 25 mM Histidine, 25 mM phosphate, 3% trehalose
6. 25 mM Histidine, 25 mM phosphate, 3% maltose
7. 25 mM Histidine, 25 mM phosphate, 3% lactose

APPROVED	Q. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Title: GLP-2 FORMULATIONS
 Inventor(s): Indu J. Isaacs
 Appl. No.: Not yet assigned
 Atty. Docket No. 016777/0454

Figure 4. Bulking agents analyzed by SE-HPLC.



Formulation

1. **25 mM Histidine, 35 mM phosphate, 3% Mannitol**
2. **50 mM Histidine, 35 mM phosphate, 3% Mannitol**
3. **75 mM Histidine, 35 mM phosphate, 3% Mannitol**
4. **25 mM Histidine, 25 mM phosphate, 3% sucrose**
5. **25 mM Histidine, 25 mM phosphate, 3% trehalose**
6. **25 mM Histidine, 25 mM phosphate, 3% maltose**
7. **25 mM Histidine, 25 mM phosphate, 3% lactose**

APPROVED	G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

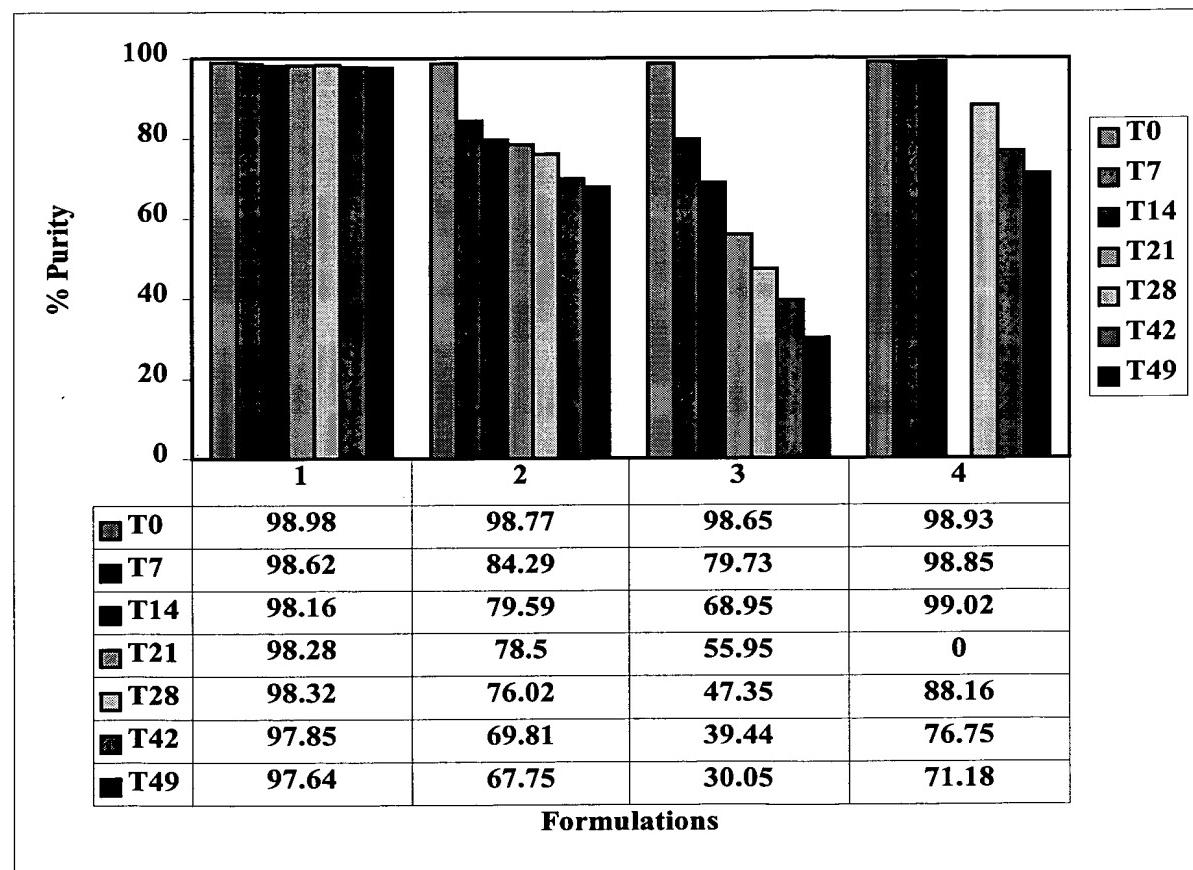
Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Appl. No.: Not yet assigned

Atty. Docket No. 016777/0454

Figure 5. Stability of liquid formulations stored at 4 °C.



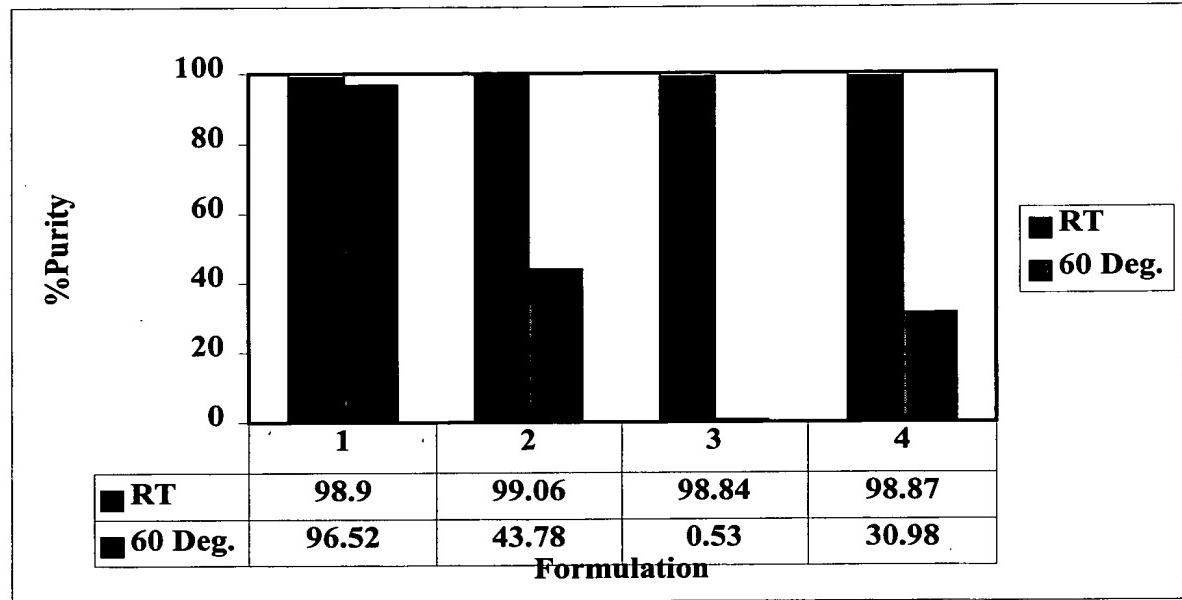
Formulations

1. 35 mM Phosphate, 50 mM Histidine, 3% Mannitol, pH 7.4
2. 35 mM Phosphate, 50 mM Histidine, 5% Sucrose, pH 7.4
3. 35 mM Phosphate, 25 mM Lysine, 3% Mannitol, pH 7.4
4. 35 mM Phosphate, 25 mM Lysine, 5% Mannitol, pH 7.4

APPROVED	O. G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

Title: GLP-2 FORMULATIONS
 Inventor(s): Indu J. Isaacs
 Appl. No.: Not yet assigned
 Atty. Docket No. 016777/0454

Figure 6. Heat stressed samples.



Formulations

1. 35 mM Phosphate, 50 mM Histidine, 3% Mannitol, pH 7.4
2. 35 mM Phosphate, 50 mM Histidine, 5% Sucrose, pH 7.4
3. 35 mM Phosphate, 25 mM Lysine, 3% Mannitol, pH 7.4
4. 35 mM Phosphate, 25 mM Lysine, 5% Mannitol, pH 7.4